



MANUFACTURER'S LIMITED TWO YEAR WARRANTY

LEGACY SOUND CORP. warrants this unit to be free from defective material or workmanship and will repair or replace this unit or any part thereof if it proves defective in normal use or service within two (2) years from the date of original purchase. Our obligation under this warranty is limited to repairing or replacing, at our discretion, the defective instrument or any part thereof when it is returned, transportation prepaid to the Legacy Service Center at the address below. This warranty will be considered void if the unit has been tampered with, improperly serviced, subjected to abuse or misuse or if installed in a commercial vehicle. This warranty does not cover accidental damage. When returning this unit for service, please include \$15.00 for return postage and handling. Send your unit to:

LEGACY SERVICE CENTER
8600 63rd Street
Brooklyn, NY 11204

IMPORTANT: Pack carefully in original carton if possible. We are not responsible for damage incurred in returning items for repair. A letter stating your exact street address, daytime phone number, and the problem you are experiencing should be included. You must also enclose a copy of the original receipt as proof of date of purchase.

FOR YOUR PROTECTION

Completely and immediately mail the Product Registration Card so that we may contact you directly in the event a safety notification is issued in accordance with the 1972 Consumer Product Safety Act, or for other reasons. Legacy may deem necessary.



TECHNICAL SUPPORT HOTLINE

Our technical department will gladly answer any questions you may have about our products. Please feel free to tell us the status of a repair, or handle other customer service situations.

1-800-934-2277

Monday through Thursday 9AM to 5PM
Friday 9AM to 2PM Eastern.

LEGACY
www.legacycaraudio.com



Congratulations

on your purchase of a new

Legacy SHARP STEEL Series amplifier !

Legacy amps are some of the most advanced car amplification products available. These quality audio products are designed and engineered to afford you years of uncompromised musical service. Legacy has utilized the latest electronic technologies in order to deliver a superb listening experience.

This innovative system has been designed utilizing 12 V DC Negative Ground power supply. The Legacy Sharp Steel Series amps incorporate two to eight MOSFETs in the different models.

This design produces enough available voltage to supply the main amplifier sections, and still have a huge amount of reserve voltage for peak "high demand" situations.

The Legacy line has been designed to ensure adequate headroom for even the most demanding peaks and dynamic ranges found on today's CD's and recordings. Used properly, these amplifiers will provide you with years of listening pleasure.

Legacy Sharp Steel Amplifier Features

LA-499/799/1099/1999
/3199/4299 also feature:

- Soft turn on/off circuit
- Variable gain control
- Remote turn on/off
- HI/LOW level inputs
- Power on LED indicator
- LED protection indicator

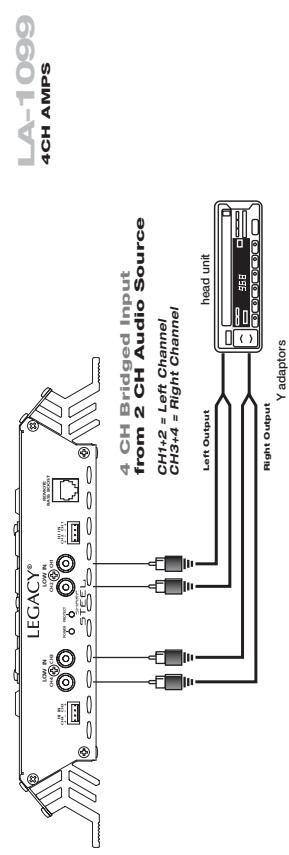
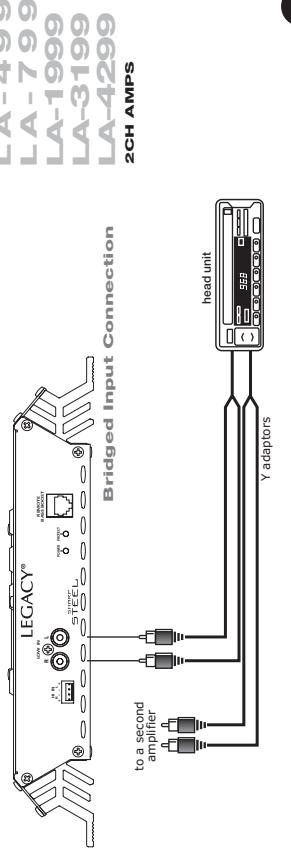
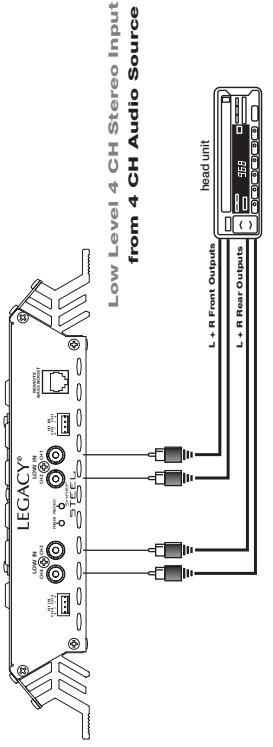
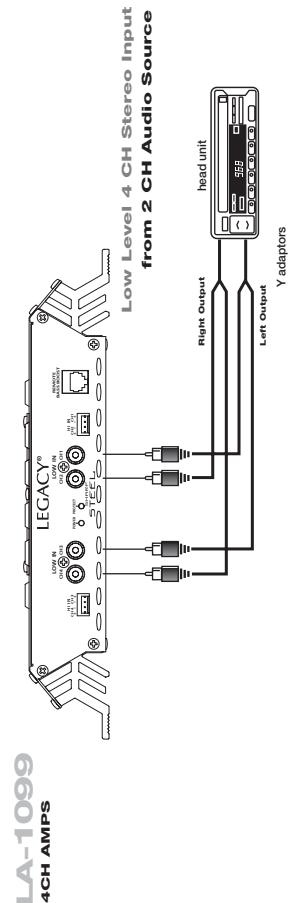
- Blue light illumination
- Fully adjustable electronic crossover network
- Remote control Bass boost (0 - +18dB @ 60Hz)
- 2 ohm stereo stable
- Bridgeable into 4 ohms
- MOSFET PWM power supplies

	LA-499 2CH amplifier	LA-799 2CH amplifier	LA-1099 4CH amplifier
OUTPUT POWER	2 X 40W RMS @ 4 OHMS RMS @ 2 OHMS MAX OUTPUT BRIDGE MODE	2 X 75W 2 X 85W 2 X 60W 2 X 400W 1 X 800W	4 X 75W 4 X 85W 4 X 100W 2 X 1100W+2200W X1 or 2X2200W X1
FREQUENCY RESPONSE	10Hz-30 kHz		
INPUT IMPEDANCE	LOW LEVEL INPUTS HIGH LEVEL INPUTS		
INPUT SENSITIVITY	LOW LEVEL INPUTS HIGH LEVEL INPUTS		
POWER SUPPLY VOLTAGE	14.4 VDC/NEG GND (10.5-16V)		
MATCHING SPEAKER IMPEDANCE	STEREO MODE BRIDGED MODE	2.4 OHMS 4.8 OHMS	2.4 OHMS 4.8 OHMS
MAXIMUM CURRENT DRAW	15 A	20 A	30 A
DIMENSIONS, W x H x L, inches (mm)	11.33 X 1.85 X 8.25 (288 X 47 X 209)	11.33 X 1.85 X 12 (288 X 47 X 305)	11.33 X 1.85 X 17 (288 X 47 X 432)
NET WEIGHT, LBS (KG)	5.29(2.4)	7.28(3.3)	10.23(4.6)

Features and Specs

inputs

Input Connections

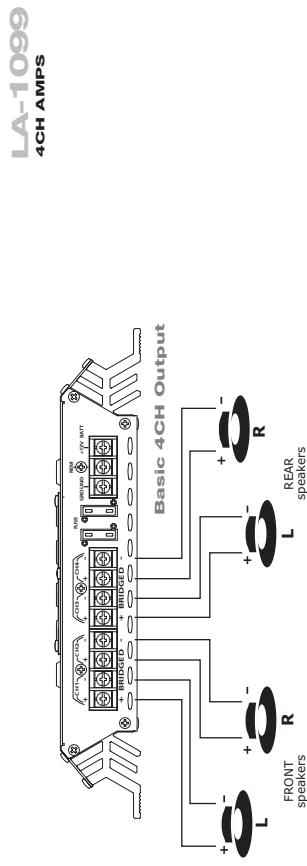
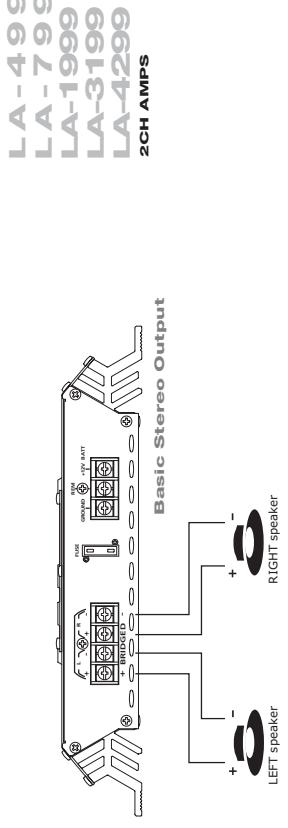
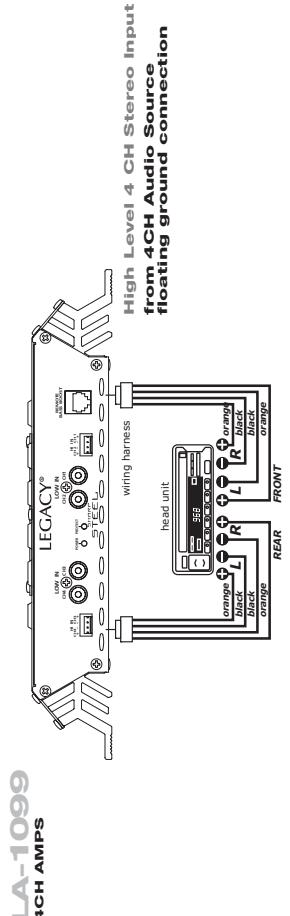
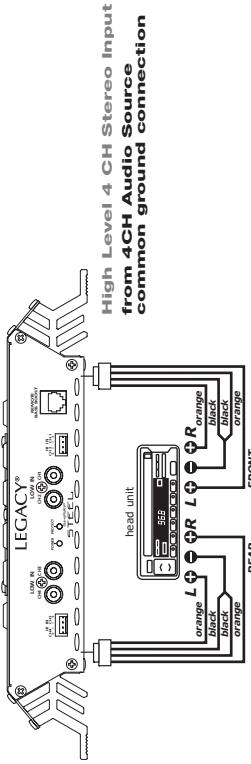


Inputs

Input Connections

Speakers

Speaker Connections

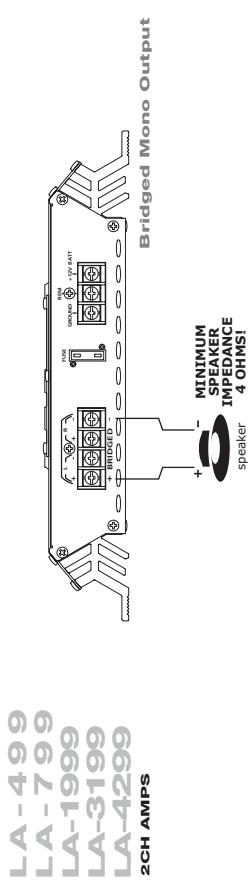
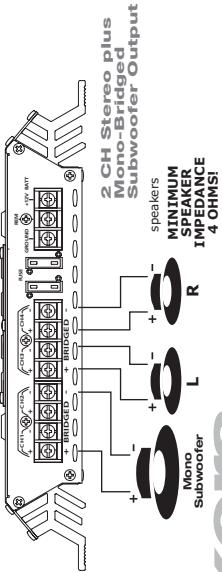
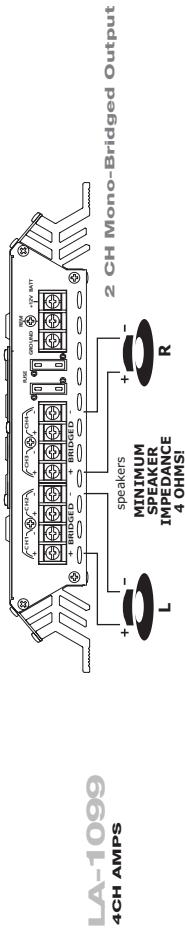


Speakers

Speaker Connections

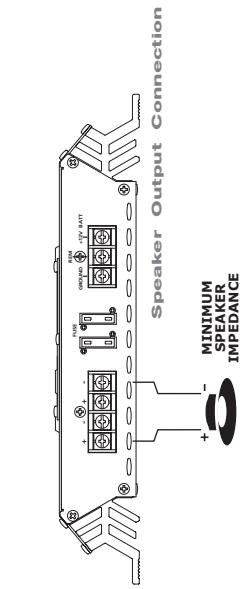
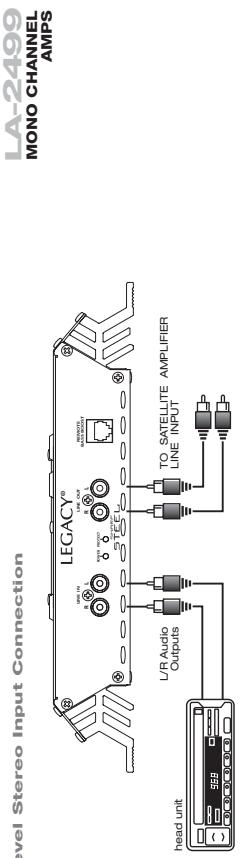
Inputs/Speakers

Input Connections/Speaker Connection



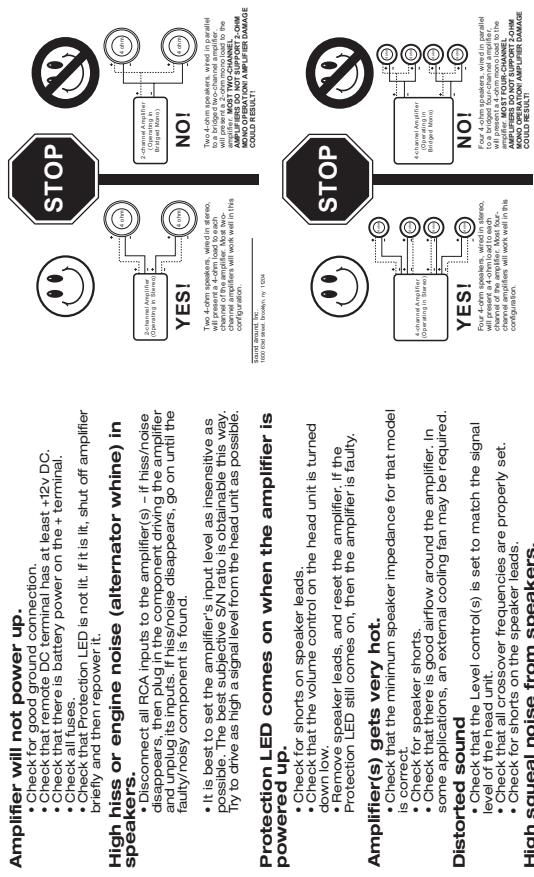
Low Level Stereo Input Connection

**LA-2499
MONO CHANNEL AMPS**



13

troubleshooting





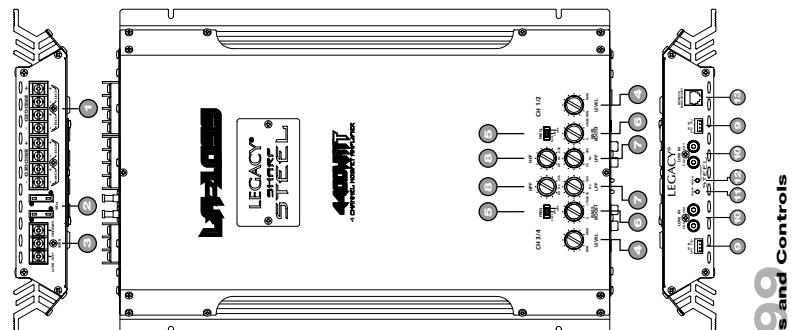
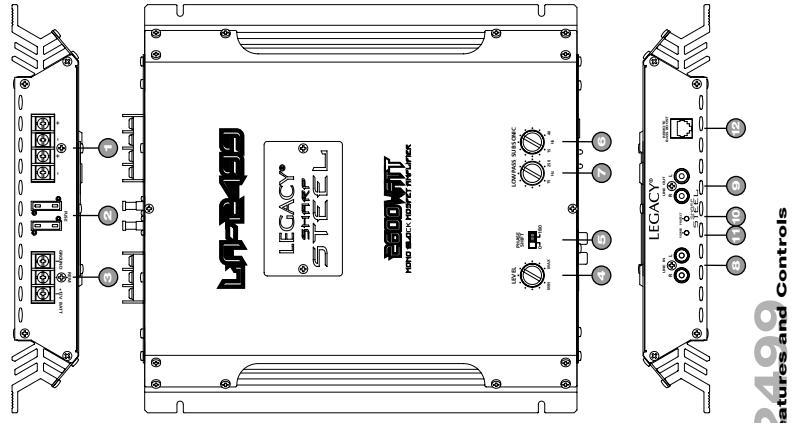
LA-4299 Features and Controls

Specifications		LA-1999 2CH amplifier	LA-3199 2CH amplifier	LA-4299 2CH amplifier	LA-2499 Mono channel amplifier
OUTPUT POWER		2 X 125W RMS @ 2 OHMS 2 X 200W RMS @ 4 OHMS 2 X 300W RMS @ 8 OHMS 2 X 450W MAX OUTPUT	2 X 200W RMS @ 2 OHMS 2 X 300W RMS @ 4 OHMS 2 X 450W RMS @ 8 OHMS 1 X 3100W MAX	2 X 300W RMS @ 2 OHMS 2 X 450W RMS @ 4 OHMS 2 X 600W RMS @ 8 OHMS 1 X 4200W MAX	200W mono 355W mono 2600W mono
FREQUENCY RESPONSE		10Hz-30 kHz			20-250Hz(±3dB)
INPUT IMPEDANCE		10 k-Ohms 100 Ohms		10 k-Ohms 100 Ohms	
INPUT SENSITIVITY		250 mV 2.5V		250 mV 4V	
POWER SUPPLY VOLTAGE		14.4 VDC/NEG GD (10.5-16V)		14.4 VDC/NEG GD (10.5-16V)	
MATCHING SPEAKER IMPEDANCE		2.4 OHMS 4.8 OHMS		2.4 OHMS 4.8 OHMS	
STEREOPHONIC MODE		BRIDGED MODE			
MAXIMUM CURRENT DRAW		30 A		70 A	
DIMENSIONS, W x H x L, inches (mm)		11.33 X 1.85 X 15 (288 X 47 X 381)		11.33 X 1.85 X 21 (288 X 47 X 482)	11.33 X 1.85 X 12 (288 X 47 X 305)
NET WEIGHT, LBS (KG)		9.04(4.1)		13.01(5.9)	7.36(3.34)

Legacy Sharp Steel Amplifier Features	
LA-2499 also features:	
• Mono Block Subwoofer Amplifier	• Blue light illumination
• 2 Ohm Stable	• Phase Control 0-180 degree
• MOSFET Power Supply	• Remote Bass Control
• Gold Plated RCA Inputs for Line Input & Bypass Output.	• Input Impedance : 10K Ohms
• Thermal, Overload and Short Protection	• Soft Turn On/Off
• Variable Sub-sonic Filter (15Hz~40Hz, 24dB/Octave)	• Advanced Protection Circuitry
• Variable Low-pass Filter (20Hz~250Hz, 24dB/Octave)	• S/N Ratio:>90dB

Specs	
OUTPUT POWER	200W mono
INPUT SENSITIVITY	250 mV
POWER SUPPLY VOLTAGE	14.4 VDC/NEG GD (10.5-16V)
MATCHING SPEAKER IMPEDANCE	2.4 OHMS 4.8 OHMS
STEREOPHONIC MODE	BRIDGED MODE
MAXIMUM CURRENT DRAW	40 A
DIMENSIONS, W x H x L, inches (mm)	11.33 X 1.85 X 21 (288 X 47 X 381)
NET WEIGHT, LBS (KG)	13.01(5.9)

Specs
Features and Specifications

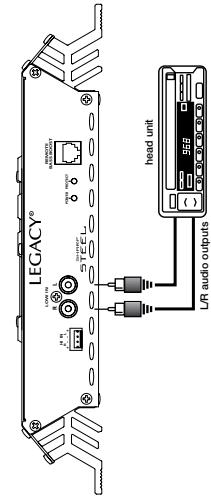


LA-1099
Features and Controls

LA-2499
Features and Controls

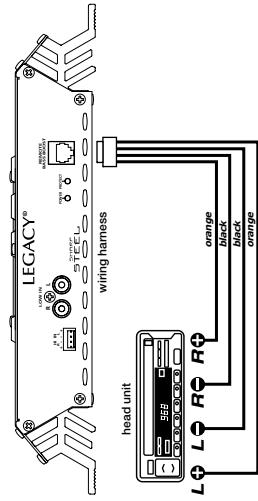
LA-499
LA-799
LA-1999
LA-3199
LA-4299
2CH AMPS

Low Level Stereo Input Connection

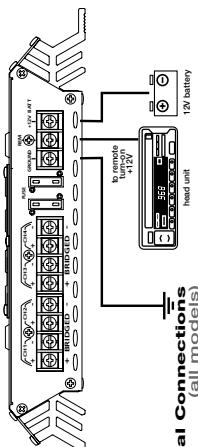


PLEASE NOTE! Using high level inputs, do not use the low level inputs at the same time.

High Level Stereo Input Connection



from speaker terminals



Electrical Connections (all models)

Making Power Connections

1. Connect the +12V terminal directly to the car battery (+) terminal.
2. Connect the GROUND terminal directly to the car battery (-) terminal OR to a good clean, paint-free chassis ground point.
3. To ensure a good ground, and to prevent "motor-boating" noise in the system, make an additional connection from the car battery (-) terminal to the chassis of the stereo unit, using a gauge minimum wire.
4. Connect the REMOTE terminal to an external switch for positive 12V turn-on/off. This may be connected to the head unit power antenna lead.

Installation Precautions

This amplifier consumes complete with all mounting hardware required. Please remember that this is a high-power unit, which generates considerable electrical energy and heat. Therefore, be sure to install the unit in a place with sufficient airflow, a minimum of dust, and no moisture. Allow enough space around the cooling fins to permit reasonable airflow and cooling.

- Before you drill or cut any holes, investigate your car's layout very carefully. Take care when you work near the gas tank, fuel lines, hydraulic line and electrical wiring.
- Do not operate the amplifier when it is unmounted. Attach all audio system components securely within the automobile to prevent damage, especially in an accident.
- Do not mean that this amplifier so that the wire connections are unprotected or in a pinched condition, or likely to be damaged by nearby objects. Be sure to select a before making or breaking power connections in your system; disconnect the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input, jacks and speaker terminals.
- If you need to replace the power fuse, only replace it with a fuse identical to that supplied with the system. Using a fuse of a different type or rating may result in damage to your system which isn't covered by the manufacturer's warranty.

Setting Up and Turning On Your New Amplifier

After all electrical connections have been made and physical installation is complete, turn on your stereo and listen for the amplifier to turn on. If there are any unusual noises from the speakers, turn the stereo off and recheck ALL wiring.

Assuming the amplifier turns on normally, you may have to adjust the LEVEL control(s) to match the output levels from your head unit. Follow these steps:

1. Set the volume control on your head unit to about the 2/3 position.
2. Adjust the amplifier LEVEL control(s) to an average listening position.
3. Turn the head unit volume all the way down, and listen for background noise.
4. Start your vehicle, and again, listen for background noise.
5. By fine tuning the LEVEL control(s), you can reduce background and engine noise, if present.

These adjustments should only be made once. After that, use the head unit volume control to adjust the system volume, not the LEVEL control(s).

CAUTION: Never turn the LEVEL control(s) up any higher than you need to get clear sound at 2/3 volume on the head unit.

Electrical Wiring and Installation

input
connections